AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

- 1-21. (Canceled)
- 22. (Currently Amended) A method of treating a disease or disorder in a patient, comprising the step of administering the albumin fusion protein of claim 30 [[1]]. 23-25. (Canceled)
- 26. (Currently Amended) A method of extending the shelf life of a HJACE54 polypeptide, Therapeutic protein:X, or fragment or variant thereof, comprising the step of fusing the HJACE54 polypeptide, Therapeutic protein:X, or fragment or variant thereof, to albumin, or fragment or variant thereof, sufficient to extend the shelf-life of the HJACE54 polypeptide, Therapeutic protein:X, or fragment or variant thereof, compared to the shelf-life of the HJACE54 polypeptide, Therapeutic protein:X, or fragment or variant thereof, in an unfused state.
- 27. (Currently Amended) A nucleic acid molecule comprising a polynucleotide sequence encoding the albumin fusion protein of claim 30 [[1]].
 - 28-29. (Canceled)
- 30. (new) An albumin fusion protein comprising a HJACE54 polypeptide fused to albumin or albumin fragment or variant thereof, wherein said albumin fragment or variant increases the serum half-life of the unfused HJACE54 polypeptide.

- 31. (new) The albumin fusion protein of claim 30 wherein said HJACE54 polypeptide is selected from:
 - (a) a full-length HJACE54 polypeptide;
 - (b) a fragment of the HJACE54 polypeptide; and
- (c) a variant of the HJACE54 polypeptide; wherein said fragment or variant of the HJACE54 polypeptide retains the activity of the HJACE54 polypeptide.
- 32. (new) The albumin fusion protein of claim 31, wherein said fragment is an N-terminal deletion mutant, a C-terminal deletion mutant, or an N-terminal and C-terminal deletion mutant.
- 33. (new) The albumin fusion protein of claim 31, wherein said fragment or variant of the HJACE54 polypeptide comprises a polypeptide at least 90% identical to the full-length HJACE54 polypeptide.
- 34. (new) The albumin fusion protein of claim 31, wherein said fragment or variant of the HJACE54 polypeptide comprises a polypeptide at least 95% identical to the full-length HJACE54 polypeptide.
- 35. (new) The albumin fusion protein of claim 30, wherein said albumin or albumin fragment or variant comprises an amino acid sequence selected from:
 - (a) amino acid residues 1 to 585 of SEQ ID NO:18; and
 - (b) amino acid residues 1 to 387 of SEQ ID NO:18.
- 36. (new) The albumin fusion protein of claim 30, which further comprises a second HJACE54 polypeptide, wherein said second HJACE54 polypeptide is a different HJACE54 polypeptide from the first HJACE54 polypeptide.

- 37. (new) The albumin fusion protein of claim 30, wherein said HJACE54 polypeptide is fused at the N-terminus, at the C-terminus, or at both the N-terminus and the C-terminus of the albumin or albumin fragment or variant thereof.
- 38. (new) The albumin fusion protein of claim 30, wherein said HJACE54 polypeptide is separated from said albumin or albumin fragment or variant thereof by a linker peptide.
- 39. (new) The albumin fusion protein of claim 30 further comprising a secretion leader sequence.
- 40. (new) The albumin fusion protein of claim 30, wherein the shelf-life of the albumin fusion protein is greater than the shelf-life of the HJACE54 polypeptide in an unfused state.
- 41. (new) The albumin fusion protein of claim 30, wherein the half-life of the albumin fusion protein is greater than the half-life of the HJACE54 polypeptide in an unfused state.
- 42. (new) The albumin fusion protein of claim 30, which is non-glycosylated.
- 43. (new) The albumin fusion protein of claim 30, which is expressed in yeast.
- 44. (new) The albumin fusion protein of claim 43, wherein said yeast is a S. cerevisiae.
- 45. (new) The albumin fusion protein of claim 43, wherein said yeast is glycosylation deficient.

- 46. (new) The albumin fusion protein of claim 43, wherein said yeast is glycosylation and protease deficient.
- 47. (new) The albumin fusion protein of claim 43, wherein said albumin fusion protein is encoded by a polynucleotide that is codon-optimized for expression in yeast.
- 48. (new) The albumin fusion protein of claim 30, which is expressed by a mammalian or bacterial cell.
- 49. (new) The albumin fusion protein of claim 48, wherein said mammalian cell is a COS, CHO, or NS0 cell.
- 50. (new) A composition comprising the albumin fusion protein of claim 30 and a pharmaceutically acceptable carrier.
 - 51. (new) A kit comprising the composition of claim 50.